

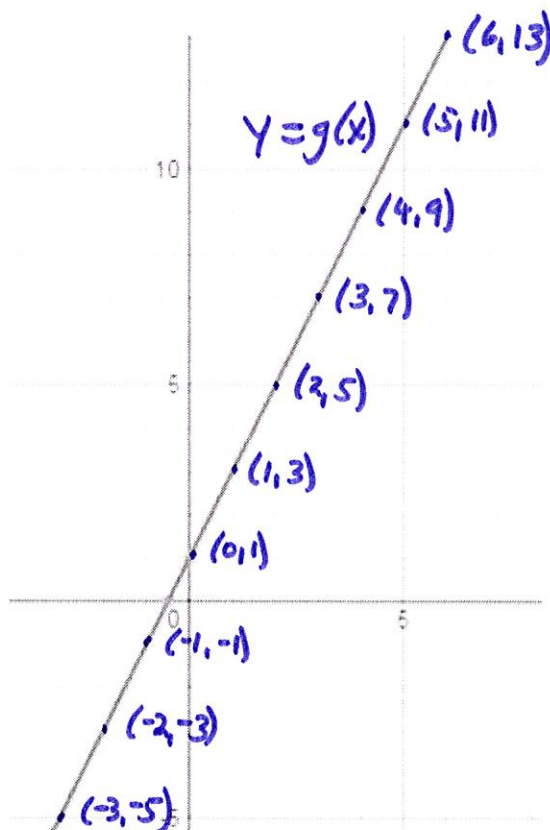
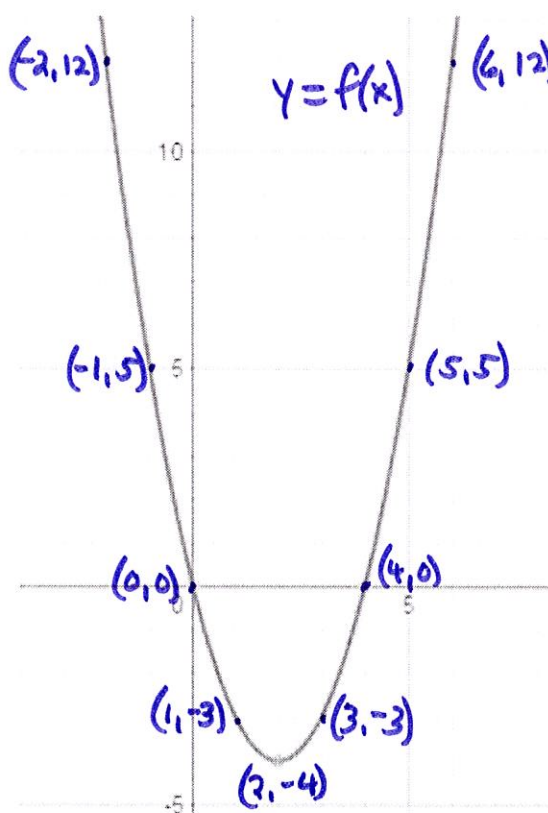
Name: _____

Given the two functions f and $g(x) = x - 3$:

1. Evaluate $(f + g)(x)$	2. Evaluate $(f + g)(2)$
3. Evaluate $f(x) - g(x)$	4. Evaluate $f(4) - g(4)$
5. Evaluate $(g - f)(x)$	6. Evaluate $(g - f)(5)$
7. Evaluate $f(x) \cdot g(x)$	8. Evaluate $f(3) \cdot g(3)$
9. Evaluate $\left(\frac{f}{g}\right)(x)$	10. Evaluate $\left(\frac{f}{g}\right)(-1)$

11. Evaluate $f(g(x))$	12. Evaluate $f(g(-1))$
13. Evaluate $(g \circ f)(x)$	14. Evaluate $(g \circ f)(0)$
15. Evaluate $f(f(x))$	16. Evaluate $f(f(-2))$
17. Evaluate $(g \circ g)(x)$	18. Evaluate $(g \circ g)(5)$
19. State the domain and range of $f(x)$	20. State the domain and range of $g(x)$
21. State the domain and range of $f(g(x))$	22. State the domain and range of $g(f(x))$

Use the graphs of $y = f(x)$ and $y = g(x)$ shown below to answer the questions 23 through 32



23. Evaluate $(f + g)(0)$	24. Evaluate $(g \circ f)(0)$
25. Evaluate $f(-1) - g(-1)$	26. Evaluate $(g \circ f)(-1)$
27. Evaluate $f(g(0))$	28. Evaluate $f(g(2))$
29. Evaluate $f(-2) \cdot g(-2)$	30. Evaluate $f(6) \cdot g(6)$
31. Evaluate $\left(\frac{f}{g}\right)(5)$	32. Evaluate $\left(\frac{f}{g}\right)(-3)$